

ABSTRACT

Disclosed is a fire-resistant lead-free shield material having high shielding ability against nuclear or electromagnetic radiation, and excellent bending workability and handling performance. The shield material comprises a composite material
5 consisting of an organic material and a metal or metal compound having a nuclear or electromagnetic radiation-shielding ability. The composite material is formed into a given shape, such as a plate shape, and wrapped with a cloth-like sheet formed of glass fibers, metal fibers or carbon fibers. Alternatively, the shield material comprises a shielding element consisting of an elastic polymeric organic compound and a particle
10 having a nuclear or electromagnetic radiation-shielding ability, such a heavy metal or ferrite. The shield material also includes either one of a film made of polyethylene, nylon, polyester or metal, a wire mesh formed of nylon fiber or metal fiber, and a plate- or rod-shaped member having a surface formed with a protrusion, which is compression-bonded onto or in the vicinity of a surface of the shielding element, or inside
15 the shielding element.